COMPACT DISC PLAYER

DP-R792/R892/R4440

SERVICE MANUAL

U.S.A. Use only

KENWOOD

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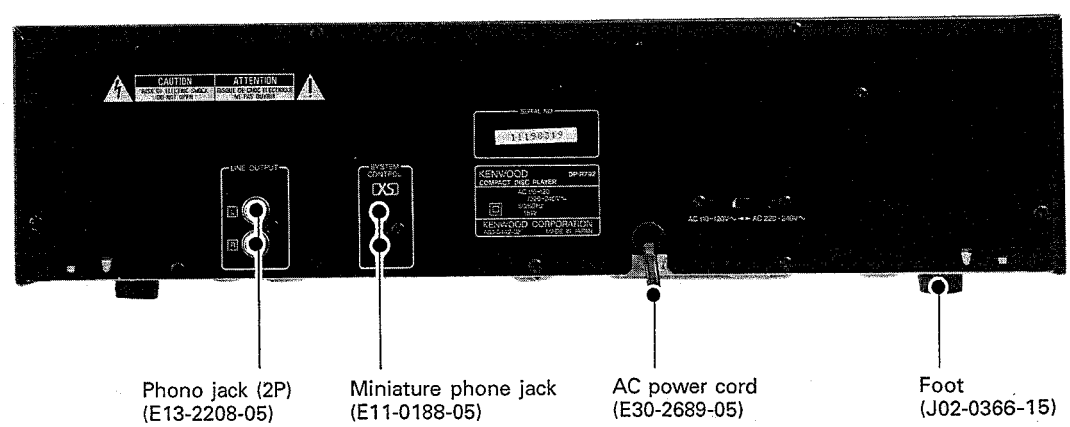

Photo is DP-R792.

In complicance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

DP-R792/R892/R4440

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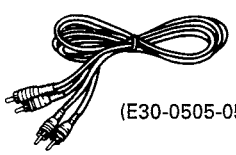
* Refer to DP-M991/ M6630 / M7730 service manual (B51-4281-00) and DP-7030 (B51-4244-00) if need circuit description CXA1571, TC9237, (DP-M serise) CXA1372Q, CXD2500Q (DP-7030).

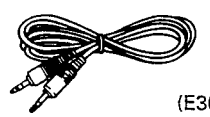
ACCESSORIES

• Audio cord 1



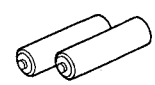
(E30-0505-05)

• System control cord 1



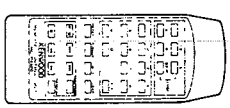
(E30-1392-05)

• Batteries (R6 / AA) 2



(–)

• Remote control unit 1
(DP-R4440 ONLY)



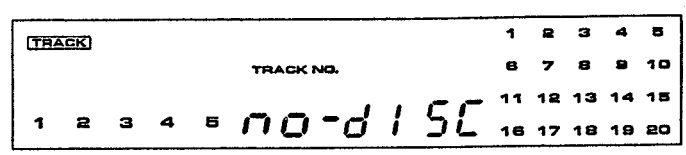
(A70-0508-05)

CAUTION

• Note related to transportation and movement

Befor transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

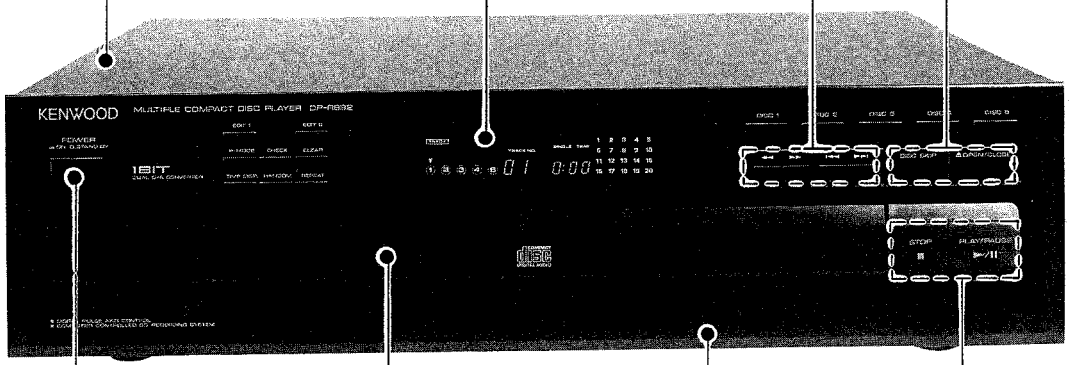


• Caution of the service manual

This manual is available for U.S.A. models, DP-R792, DP-R892 and DP-R4440. Before using this manual, please check model's name. Control pcb ass'y (X32) parts list is written the parts for all of 3 models. Also refer to comparison table in schematic diagram.

Model name	Control pcb	Mechanism
DP-R792	X32-1900-12 (K,P)	X92-1610-10
DP-R892	X32-1900-11 (K,P)	X92-1610-10
DP-R4440	X32-1900-10 (K,P)	X92-1610-10

EXTERNAL VIEW



Metallic cabinet
(A01-1926-01)

Dressing plate
(B03-2687-04)

Escutcheon (FF/REV)
(B07-1976-03)

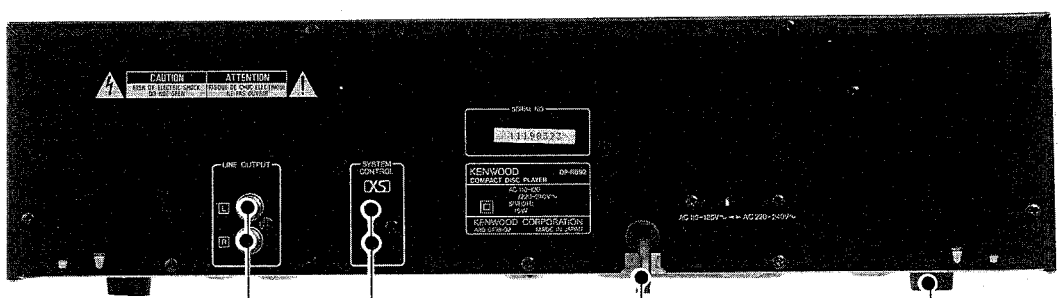
Escutcheon (SKIP/OPEN/CLOSE)
(B07-1978-03)

Knob (Button)
(K27-2004-04)

Panel (TRAY)
(A29-0184-02)

Panel
(A60-0176-02)

Escutcheon (STOP/PLAY/PAUSE)
(B07-1977-04)



Phono jack (2P)
(E13-2208-05)

Miniature phone jack
(E11-0188-05)

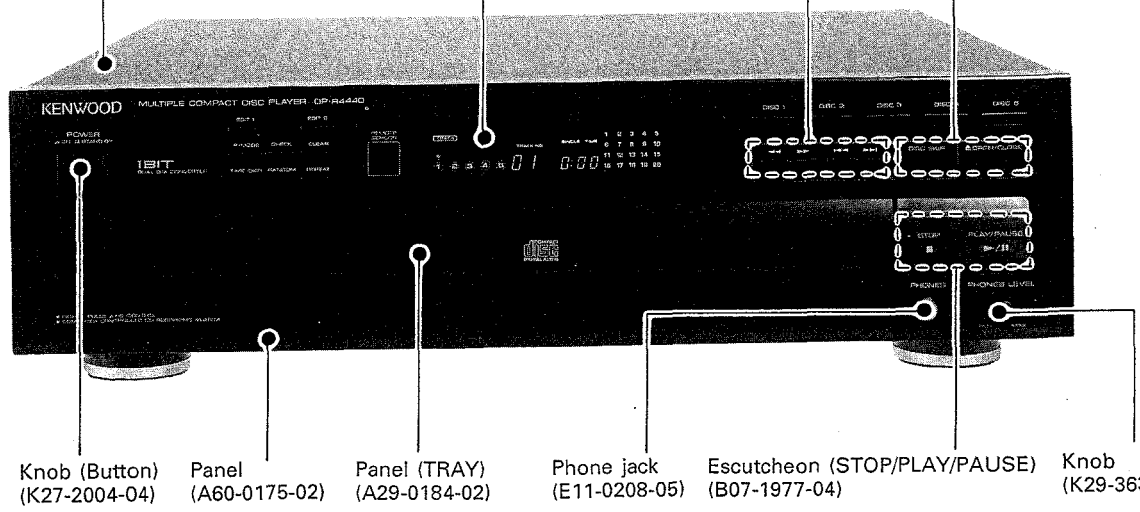
AC power cord
(E30-2689-05)

Foot
(J02-0366-15)

Photo is DP-R892.

DP-R792/R892/R4440

EXTERNAL VIEW



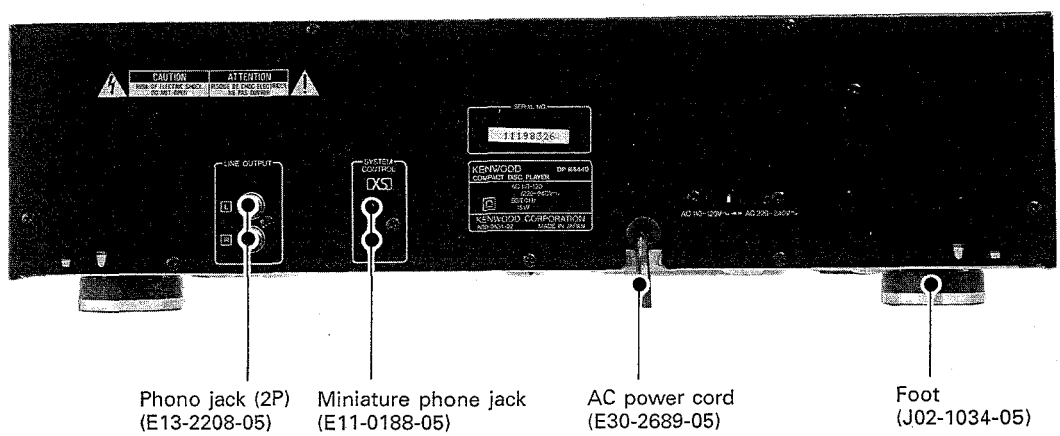
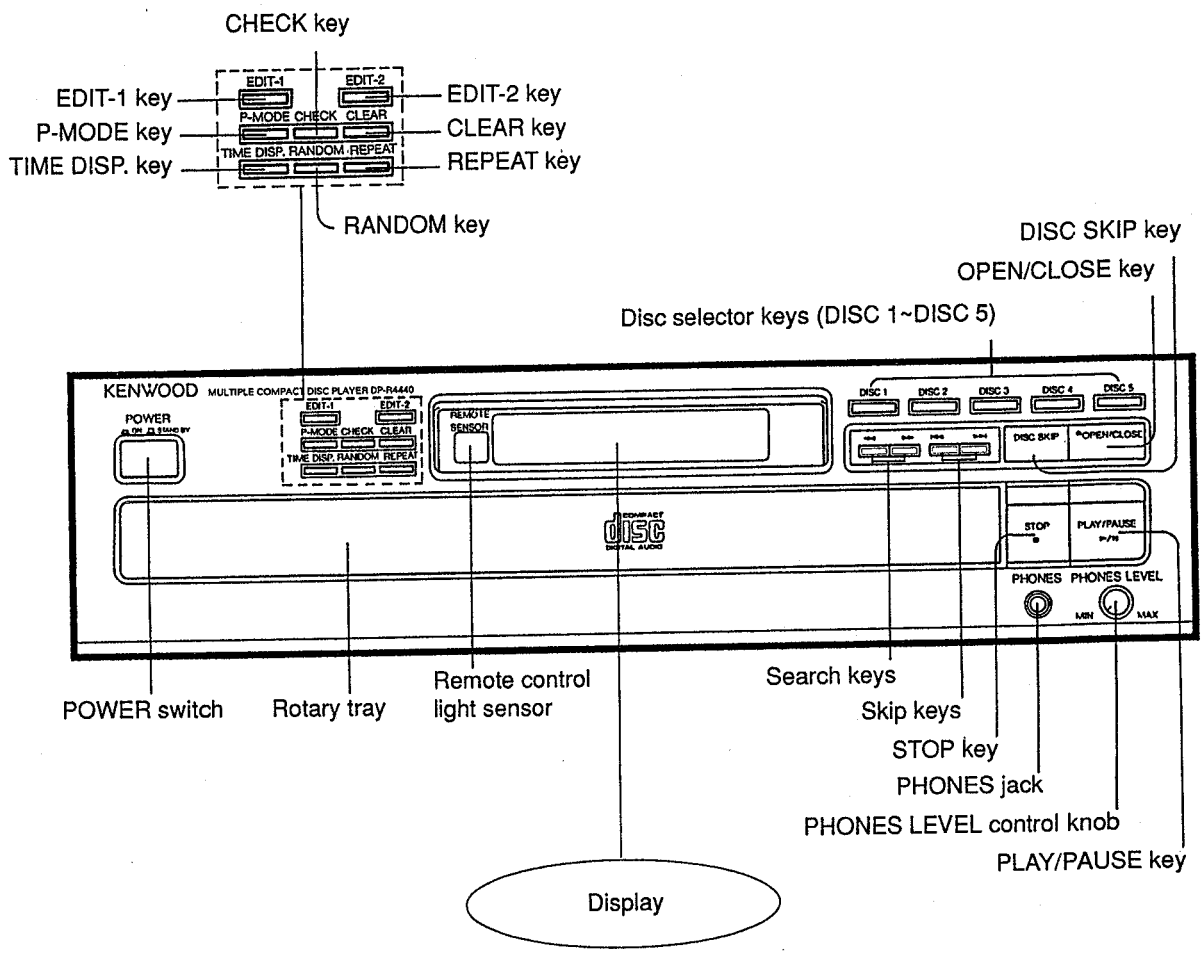


Photo is DP-R4440.

CONTROLS



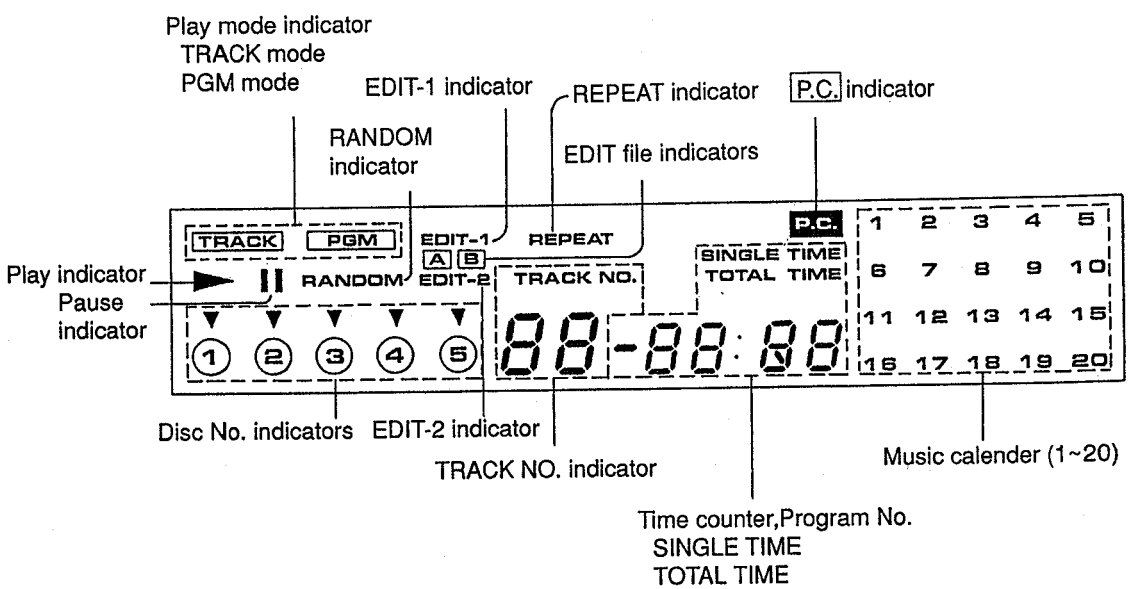


Fig. is DP-R4440.

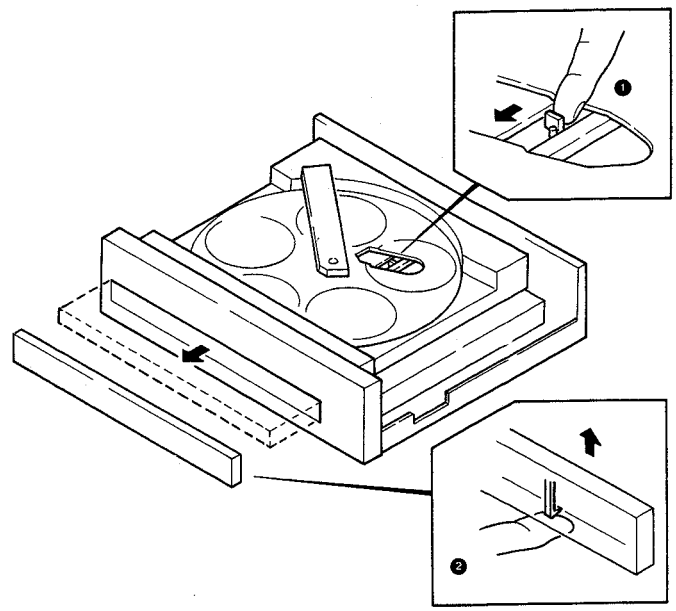
DP-R792/R892/R4440

DISASSEMBLY FOR REPAIR

*** Remove the metallic cabinet before the following procedure.**

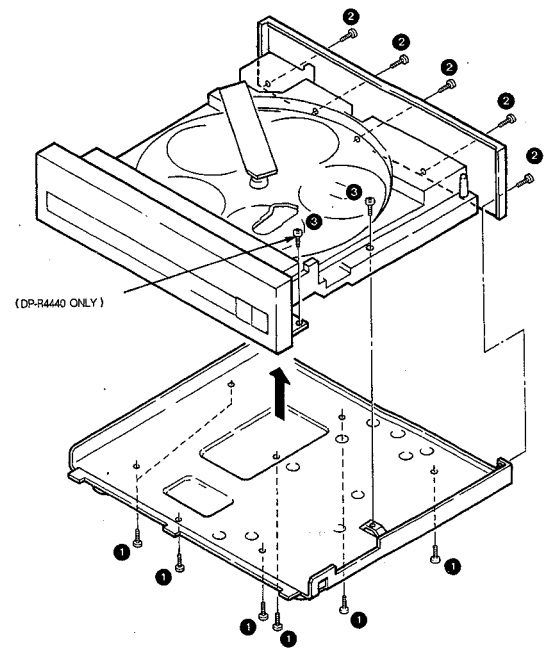
1. How To Remove the Tray and Tray panel

1. Slide the lever frontwards (❶) until the tray comes out.
2. Pull the tray out fully.
3. Remove the tray panel upwards (❷).



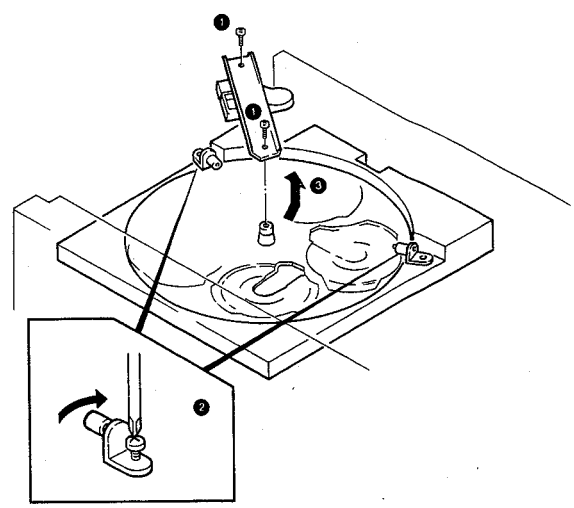
2. How To Remove the Bottom Plate

Remove bottom plate screws (❶), rear panel screws (❷) and chassis screws (❸).



3. How to Remove Rotary Tray

1. Remove clamper screws (❶).
2. Loosen roller screws (❷) and turn them to free the tray.
3. Remove the rotary tray upwards (❸).

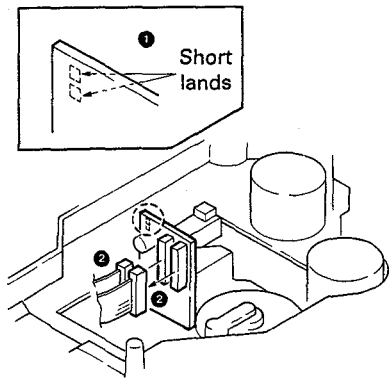


DISASSEMBLY FOR REPAIR

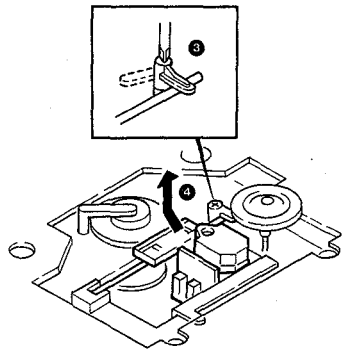
4. How to Replace Pickup

*** Remove the rotary tray before the following procedures.**

1. Short the short lands (❶).
2. Remove 2 connectors (❷).

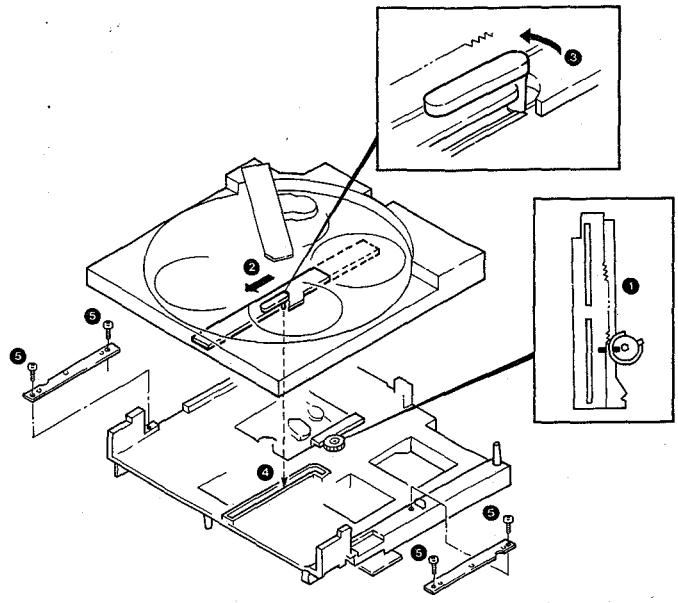


3. Turn the stopper (❸).
4. Remove the pickup upwards (❹).



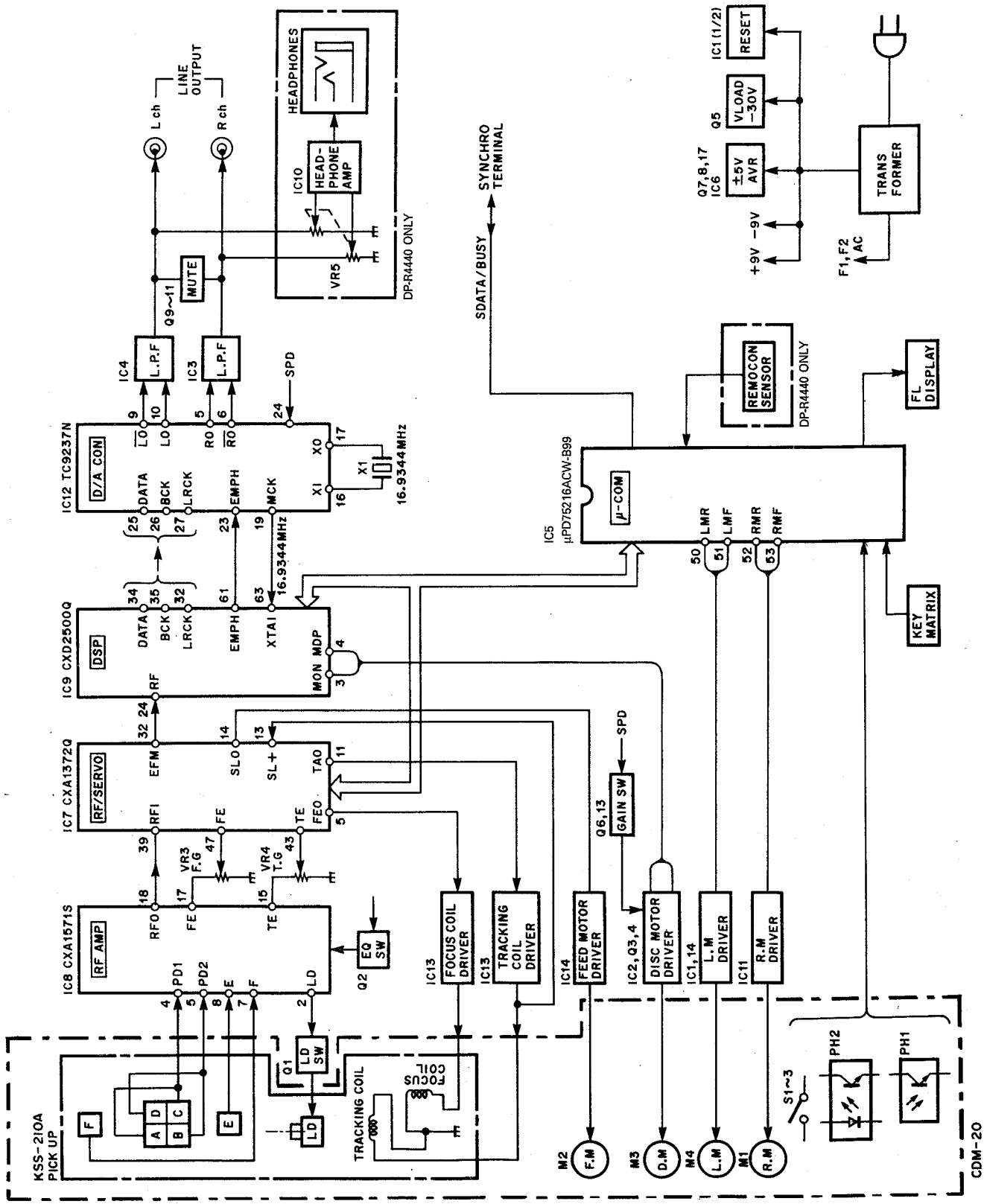
5. How to Mount Rotary Tray

1. Check the pickup mechanism is at down position and meet the mark of the gear to the boss of the pickup mechanism up/down gear (❶).
2. Move the slide gear frontwards (❷) and fix the lock lever to slide gear (❸).
3. Insert the lock lever pin to the groove of the chassis (❹).
4. Fix the hardware with screws (❺).



DP-R792/R892/R4440

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. TEST MODE

• Setting the test mode

The microprocessor built in the unit can be put to TEST MODE by just short-circuiting the TEST pin #5 and #6 when set to power ON.

DP-R792/R892/R4440 is available to set to each test mode by UP key or DOWN key as follows.

1-1. Key and functions vaild in test mode

STEP	Description	Track No. display
1	STOP MODE after setting TEST MODE	TRACK NO. 01
2	Turn Rotary-tray with opening it, and shows time of tray-open.	TRACK NO. 02
3	Turn Rotary-tray with closing it, and shows time of tray-close.	TRACK NO. 03
4	(1) Focus servo ..... ON. (2) Tracking servo ..... ON. (3) Feed servo ..... ON.	TRACK NO. 04 ↓ ▶ Time lights
5	(1) Tracking ..... OFF. (2) Focus servo ..... ON. (3) Tracking servo ..... OFF. (4) Feed servo ..... OFF.	TRACK NO. 05 ▮▮ lights
6	Same step "4".	TRACK NO. 06 ↓ ▶ time lights
7	Confirm position of start limit switch, shows time of setting it to on.	TRACK NO. 07
8	Set it to program mode, playback Tracking No. 7, 8 and 6 (High-speed).	

CIRCUIT DESCRIPTION

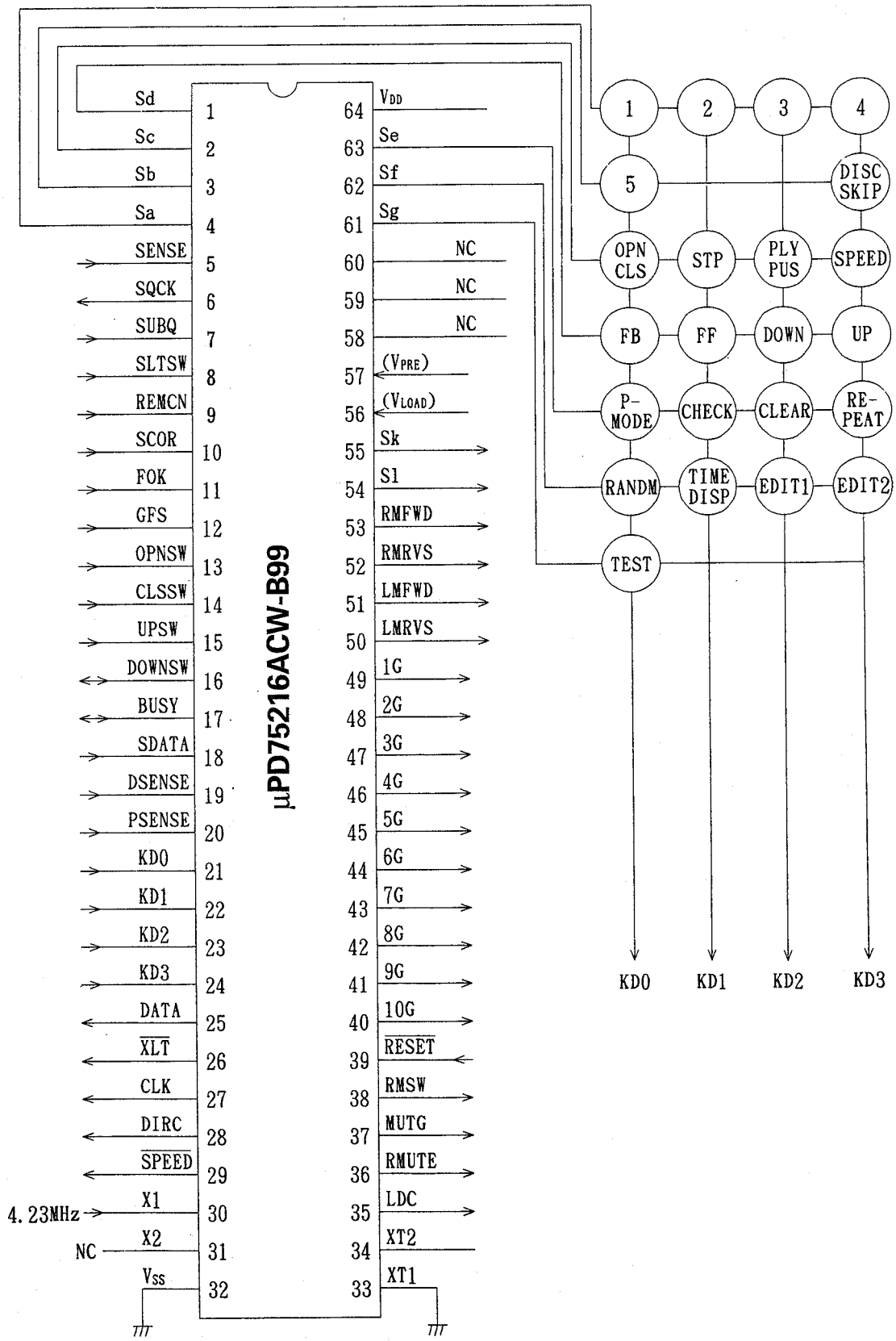
No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo ..... ON. (2) Tracking servo ..... ON. (3) Feed servo ..... ON.	TRACK NO. 04 ▶ (PLAY) lights.
2	CHECK	(1) Focusing servo ..... ON. (2) Tracking servo ..... OFF. (3) Feed servo ..... OFF.	TRACK NO. 05 (❚❚) Pause lights.
3	STOP	In STOP mode. Disc is loaded.	TRACK NO. 01
4	▶▶| (UP)	Change TEST mode (UP).	
5	|◀◀ (DOWN)	Change TEST mode (DOWN).	
6	▶▶	In the PLAYBACK mode, jumps the pickup outwards (16 tracks). In the STOP mode, the pickup slightly outwards.	
7	◀◀	In the PLAYBACK mode, jumps the pickup inwards (16 tracks). In the STOP mode, the pickup slightly inwards.	
8	OPEN/CLOSE	When the tray is opened then track No. 7, 8 and 6 (High-speed) are programmed and playback. TEST mode is canceled.	
9	DISC SKIP	In SKIP mode.	
10	P-MODE	Track No. 7, 8 and 6 (High-speed) are programmed and playbacked. TEST mode is canceled when pressing it again after playback.	
11	REPEAT	The tray OPEN / CLOSE operation is available without canceling TEST mode.	
12	TIME DISP	Turn ON / OFF the FL display.	
14	SPEED*	Set the port condition to High-speed mode, and set it to normal speed when pressing SPEED key again.	
15	DISC SELECTOR	Shows time of tray-rotation. (1) ..... Clockwise a turn time. (2) ..... Counterclockwise a turn time.	

*DP-R792 only

CIRCUIT DESCRIPTION

2. Microprocesseor : µPD75216ACW-B99 (IC5)

2-1. Terminal connection diagram



CIRCUIT DESCRIPTION

2-2. Explanation of terminals (μPD75216ACW-B99)

Pin No.	Pin name	I/O	Function
1 ~ 4	Sd-a	O	Segment (d ~ a)
5	SENSE	I	Signal detection terminal for SENSE signal from Digital Signal Processor
6	SQCK	O	Clock output of Q data input
7	SUBQ	I	Q data input
8	SLTSW	I	Start limit switch for pickup
9	REMCN	I	Remote control input
10	SCOR	I	SCOR input of Q data
11	FOK	I	Focus OK signal input
12	GFS	I	Spindle lock
13	OPNSW	I	Tray open switch
14	CLSSW	I	Tray close switch
15	UPSW	I	Mechanism-up switch
16	DOWNSW	I	Mechanism-down switch
17	BUSY	I/O	System control signal (BUSY)
18	SDATA	I/O	System control signal (DATA)
19	DSENSE	I	Disc sensor
20	PSENSE	I	Disc position sensor
21 ~ 24	KD0 ~ 3	I	Key input (0bit ~ 3bit)
25	DATA	O	Data signal to signal processor
26	$\overline{XLT}$	O	XLT signal to signal processor
27	CLK	O	Clock signal to signal processor
28	DIRC	O	Control signal for jump brake
29	$\overline{SPEED}$	O	Double-speed playback control (H : NORMAL / L : DOUBLE)
30	X1	I	Clock input (4.23MHz)
31	X2	I	Non-connection
32	Vss	–	Ground
33,34	XT1,2	I	Non-connection
35	LDC	O	Laser on
36	RMUTE	O	Analog mute
37	MUTG	O	Digital mute
38	RMSW	O	Rotary tray motor speed-down
39	$\overline{RESET}$	I	Reset signal input
40 ~ 49	10G ~ 1G	O	Display grid (10G ~ 1G)
50	LMRVS	O	Tray motor 1
51	LMFWD	O	Tray motor 2
52	RMRVS	O	Rotary motor 1
53	RMFWD	O	Rotary motor 2
54,55	SI,k	O	Non-connection
56	VLOAD	I	VLOAD input (–30V)
57	VPRE	I	VPRE input (–5V)
58 ~ 60	Sh ~ j	O	Non-connection
61 ~ 63	Se ~ g	O	Display segments (e ~ g)
64	VDD	–	Power supply (+5V)

MECHANISM OPERATION DESCRIPTION

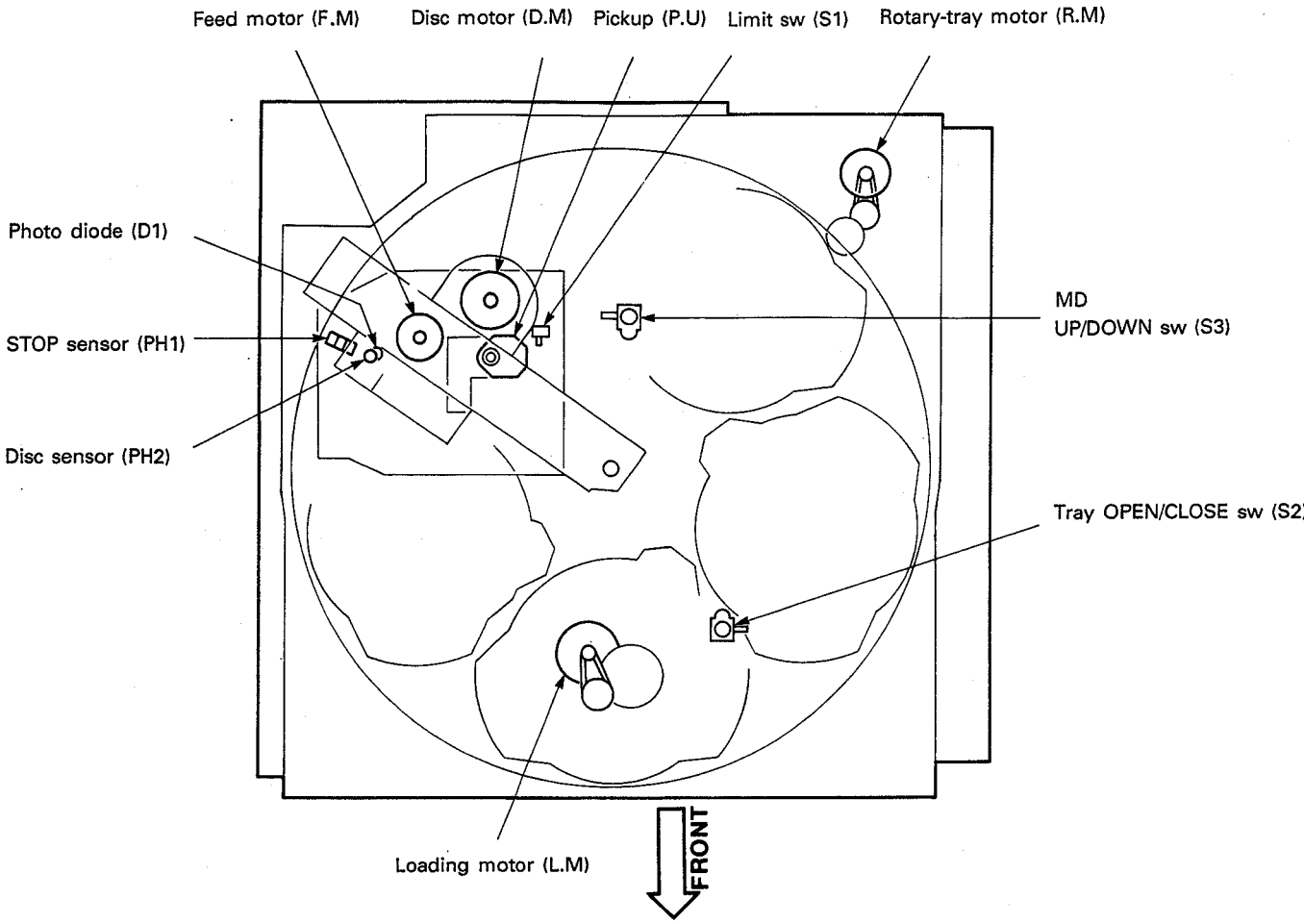


Fig. 1

1. Disc Detection

If rotary-tray motor (RM) is turnning clockwise, the tray rotary turns same direction. Confirm check of disc presence and disc number by photo transistor (PH2). Stop position is detected by photo interrupter (PH1).

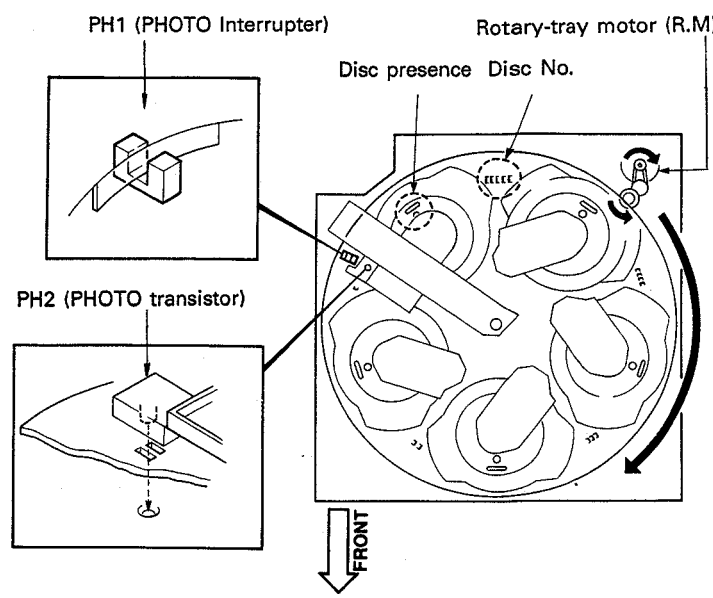


Fig. 2

MECHANISM OPERATION DESCRIPTION

2. Open and Close Operation

If tray loading motor (LM,M4) turns counterclockwise, the slide gear moves frontwards with lock lever fixed the rear of the tray. And then tray open/close switch (S2) is set to open mode.

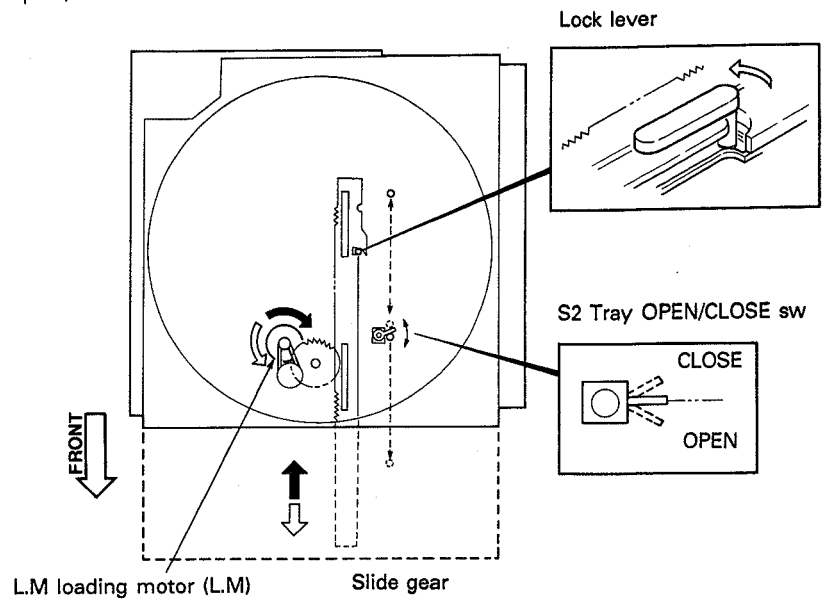


Fig. 3

If tray loading motor turns clockwise, the tray moves backwards on the way with the lock lever but slider gear goes on backwards and engages for mechanism up/down gear. Slide gear moves and the loading motor (S3) until pickup mechanism is at fully up or down position.

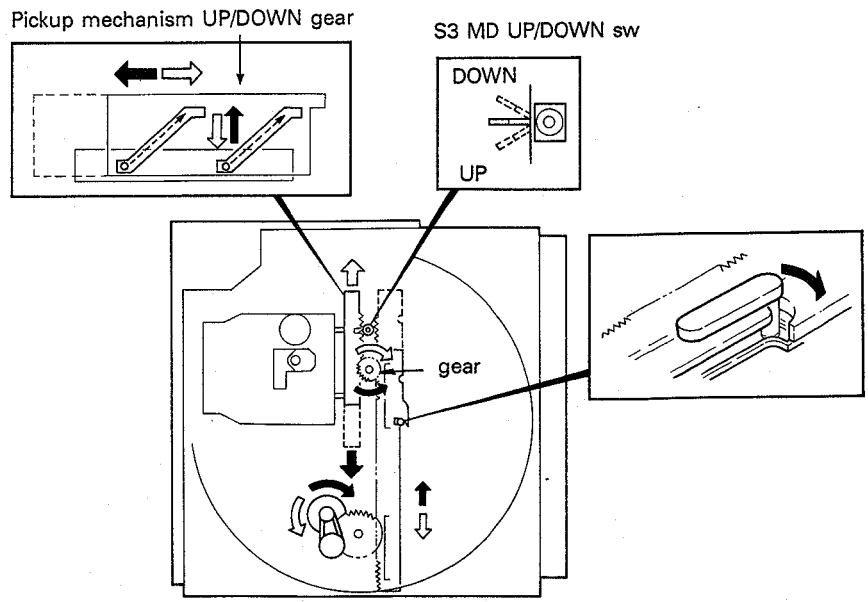


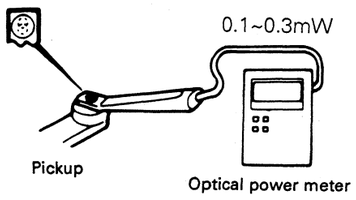
Fig. 4

ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
1	LASER POWER	–	Apply the sensor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode. Press the MANUAL S. key(⏩)to move the pickup outwards. Press the CHECK key to check that the LD emits light. Then, confirm that the display is" 05 ".	–	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN9-1) CH2: TE (CN9-6)	Turn power switch off and set the unit to test mode again. Press the ⏭ key to open the tray. Load a test disc and press the ⏭ key. Then press the CHECK key. Confirm that the display is"05".	VR2	Symmetry between upper and lower or DC=0±0.05V	(b)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN9-1) CH2: TE(CN9-6)	Press the PLAY key. Confirm that the display is" 05 ".	VR1	Optimum eye pattern	(c)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 2-3.	Connect a LPF to CN9 pin 2-3 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is" 05 ".	VR3	Two VTVMs should read the same value.	(d)
5	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 5-6.	Connect an LPF to CN9 pin 5-6 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is" 05 ".	VR4	Two VTVMs should read the same value.	(d)

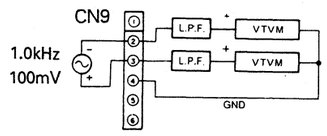
(Note) Type 4 disc: SONY YEDS-18 Test Disc or equivalent.
LPF: Around 47kΩ+390pF or so.
Steps 1~5 are in Test Mode.

(a) Laser Power

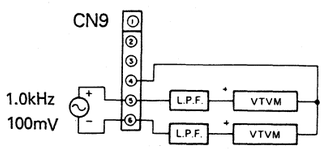


(d) Focus Gain and Tracking Gain Adj.

Focus gain Adj.

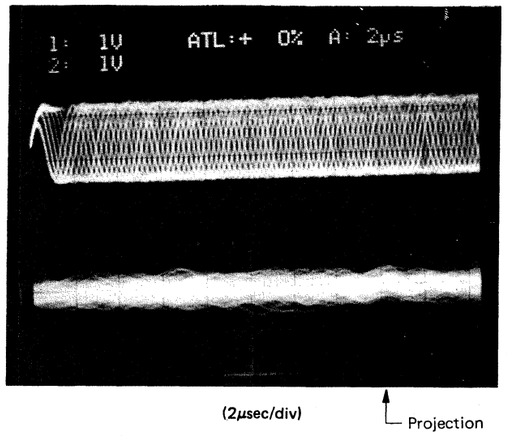


Tracking gain Adj.

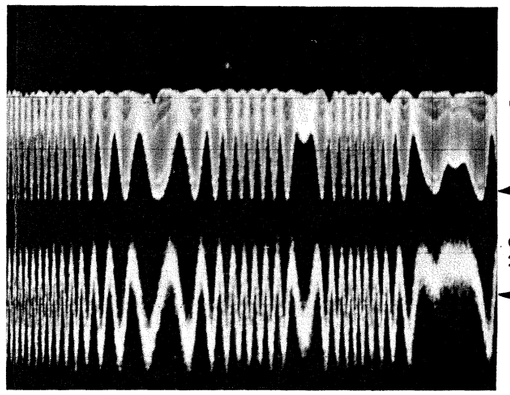


DP-R792/R892/R4440

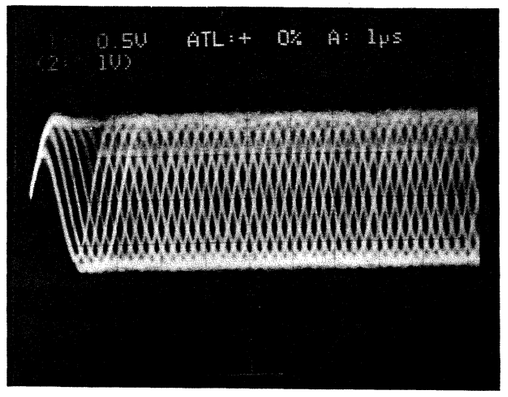
ADJUSTMENT



- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18μs after RF signal, in the form of a projection.

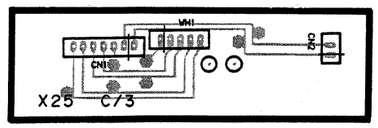


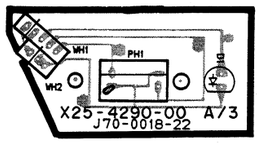
- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR2)

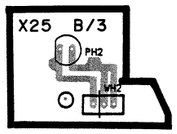


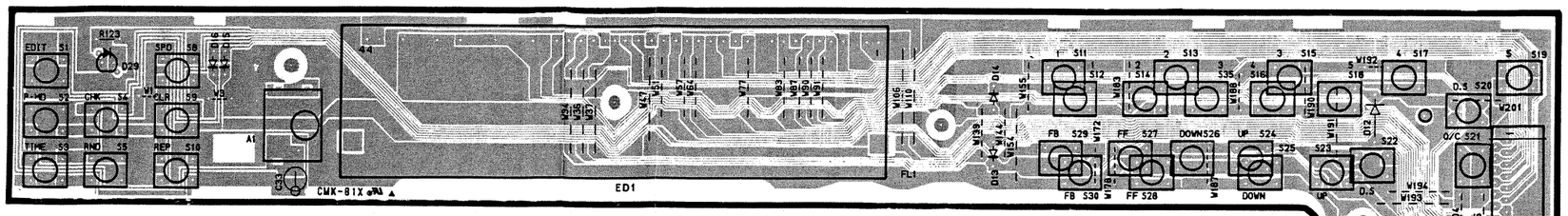
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.

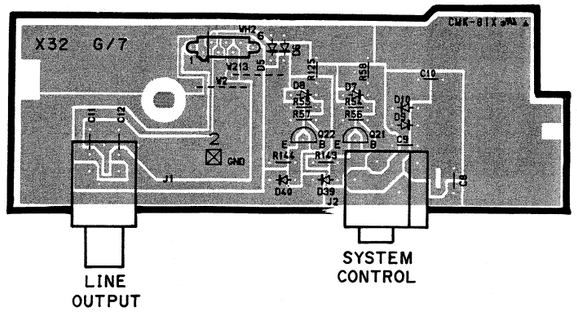
PC BOARD (COMPONENT SIDE VIEW)

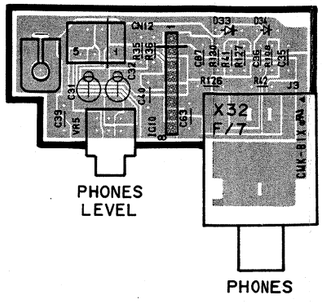


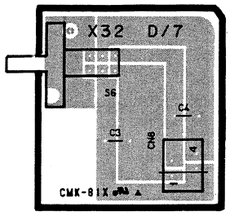


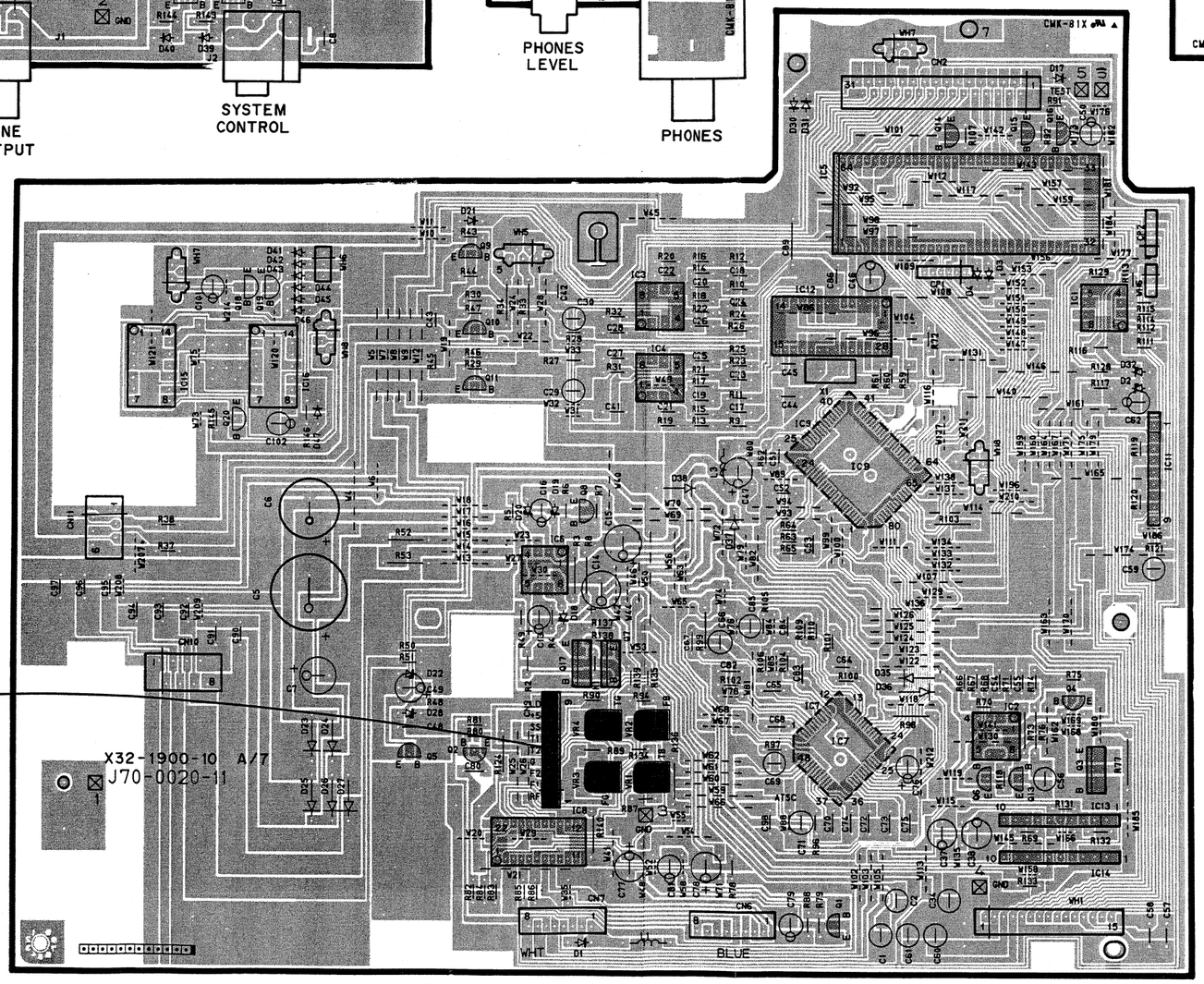


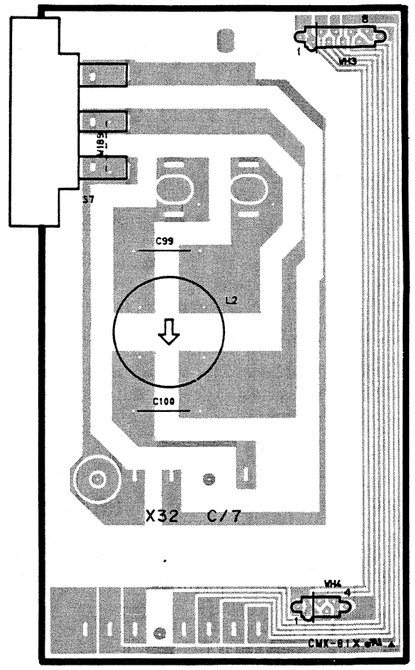


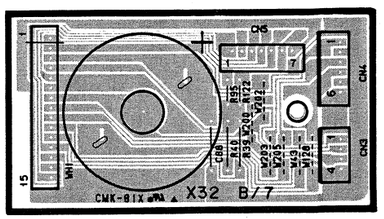


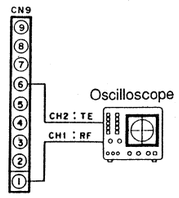






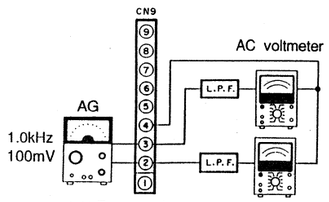




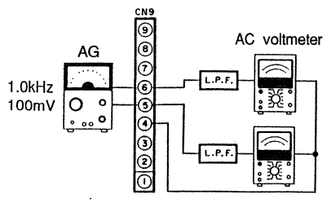


(b) Tracking error balance
: Symmetry between upper and lower or DC±0.05V

(c) Focus error balance
: Optimum eye pattern



(d) Focus gain
: Two VTVMs should read the same value.



(d) Tracking gain
: Two VTVMs should read the same value.

Refer to the schematic diagram for the values of resistors and capacitors.

MECHA. ASS'Y(CDM-20)
(X92-1610-10)

(X25-)
(B/3)

(X25-4290-00)
(A/3)

PHOTO TRANSISTOR

PHOTO INTERRUPTER

PHOTO DIODE

R.M (ROTARY MOTOR)

(X25-)
(C/3)

(X32-)(B/7)

TRAY MOTOR

S1 LIMIT SW
FM (FEED MOTOR)
DM (DISC MOTOR)

TRAY OPEN /CLOSE SW S2

MD UP/DOWN SW S3

T25-0011-05(KSS-210A)

FOCUS COIL
TRACKING COIL
PICK UP

IC1~4	: RC4565D or NJM4565D
IC5	: μPD75216ACW-B99
IC6	: NJM4558D
IC7	: CXA1372Q
IC8	: CXA1571S
IC9	: CXD2500AQ
IC10	: NJM4565L
IC11	: TA8409S
IC12	: TC9237N
IC13	: LA6510
IC14	: TA8410AK or LA6510

DP-R4440

DESTINATION		UNIT NAME	F/7	R33,34	R123	C33	D29	W176	W182	A1
COUNTRY	ABB.									
U.S.A.	K	X32-1900-10	YES	YES	NO	YES	NO	YES	NO	YES
CANADA	P									

DP-R892

DESTINATION		UNIT NAME	F/7	R33,34	R123	C33	D29	W176	W182	A1
COUNTRY	ABB.									
U.S.A.	K	X32-1900-11	NO	NO	NO	NO	NO	YES	NO	NO
CANADA	P									

DP-R792

DESTINATION		UNIT NAME	F/7	R33,34	R123	C33	D29	W176	W182	A1
COUNTRY	ABB.									
U.S.A.	K	X32-1900-12	NO	NO	YES	NO	YES	NO	YES	NO
CANADA	P									

(X32-1900-10) (A/7)

DISC MOTOR DRIVER

IC14 FEED TRAY MOTOR DRIVER

TRAY MOTOR DRIVER

IC1(2/2)

IC13 FOCUS TRACKING COIL DRIVER

IC7
(Bottom View)
SERVO IC

IC9
(Bottom View)
DIGITAL SIGNAL PROCESSOR

IC2(1/2)
CLV

CLV GAIN SW

SPEED INV

TE-BAL

F-GAIN

T-GAIN

FE-OF

EQ SW
NORMAL/HIGH

RF AMP

LD SW

ADJUSTMENT

2SA1534A
2SA954
2SC1923
2SC2878

2SD1266

2SA1426

DTC124ES
2SC1740S

2SD1944

UN4212
2SC3311A

NJM4558D

NJM4565D

TA8409S

RC4565D

LA6510
TA8410AK

CXA1571S

CXD2500AQ

CXA1372Q

SIGNAL LINE
GND LINE
+B LINE
−B LINE

WH1 F.M W.GND T.M D.M SGND +5V LIMIT SW OPEN SW CLOSE SW UP SW DOWN SW PST DST TRM(−) TRM(+)

TEST MODE

CN2

IC14 FEED TRAY MOTOR DRIVER

TRAY MOTOR DRIVER

IC13 FOCUS TRACKING COIL DRIVER

IC1(2/2)

IC1(1/2) RESET

IC11 ROTARY MOTOR DRIVER

CP1 10K x 5

CP2 2.2K x 4

FL CURRENT BOOSTER Q14 Q15 Q16 Q5

−30V AVR

+5V AVR Q17 Q7

−5V AVR Q9 Q8

MUTING D21

IC5 μ-COM

IC9 (Bottom View) DIGITAL SIGNAL PROCESSOR

IC12 8fs D.F & D/A CONVERTER

IC4(2/2) L.PF

IC4(1/2)

IC3(1/2)

IC3(2/2) L.PR

IC6(1/2)

IC6(2/2)

IC10(1/2)

IC10(2/2)

(X32−)(C/7)

(X32−)(D/7)

(X32−)*(F/7)

(X32−)(G/7)

(X32−)(E/7)

CN10 CN8 CN12 CN11 WH3 WH4 WH5 WH2

POWER SW ON OFF

HEADPHONE J3

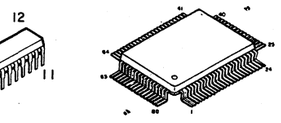
SYNCHRO OUT XS J2

AUDIO OUT Rch Lch J1

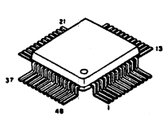
REMOTE SENSOR *A1

EDI: FIP10BBM6

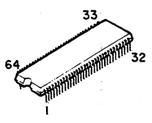
CXD2500AQ



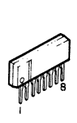
CXA1372Q



UPD75216ACW-B99



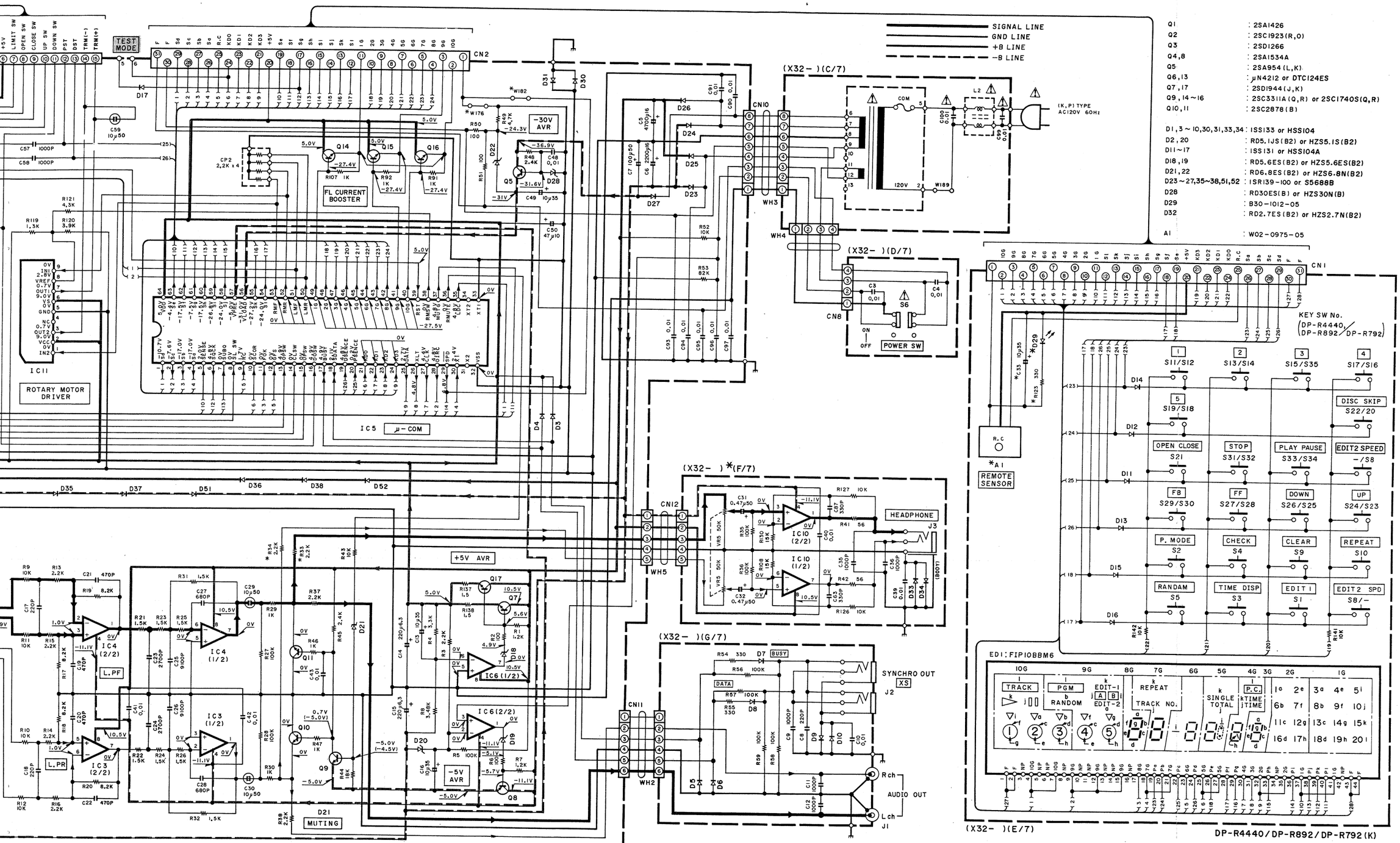
NJM4565L



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y22-2840-1



Q1	: 2SA1426
Q2	: 2SC1923(R,O)
Q3	: 2SD1266
Q4,8	: 2SA1534A
Q5	: 2SA954(L,K)
Q6,13	: μN4212 or DTC124ES
Q7,17	: 2SD1944(J,K)
Q9,14~16	: 2SC3311A(Q,R) or 2SC1740S(Q,R)
Q10,11	: 2SC2878(B)
D1,3~10,30,31,33,34	: 1SS133 or HSS104
D2,20	: RD5.1JS(B2) or HZS5.1S(B2)
D11~17	: 1SS131 or HSS104A
D18,19	: RD5.6ES(B2) or HZS5.6ES(B2)
D21,22	: RD6.8ES(B2) or HZS6.8N(B2)
D23~27,35~38,51,52	: 1SR139-100 or S5688B
D28	: RD30ES(B) or HZS30N(B)
D29	: B30-1012-05
D32	: RD2.7ES(B2) or HZS2.7N(B2)
A1	: W02-0975-05

M4565L

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

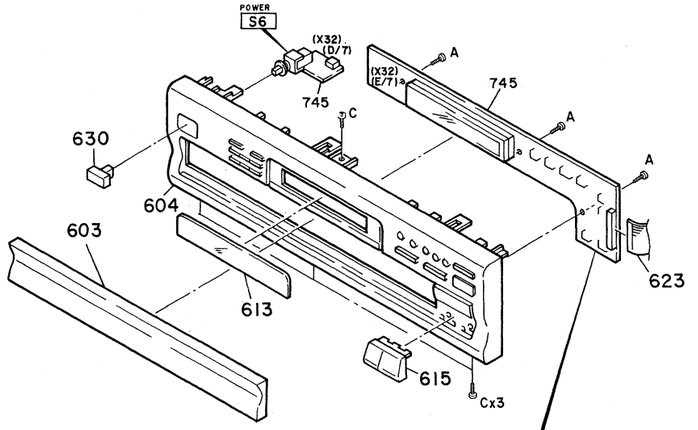
DP-R4440/DP-R892/DP-R792(K)

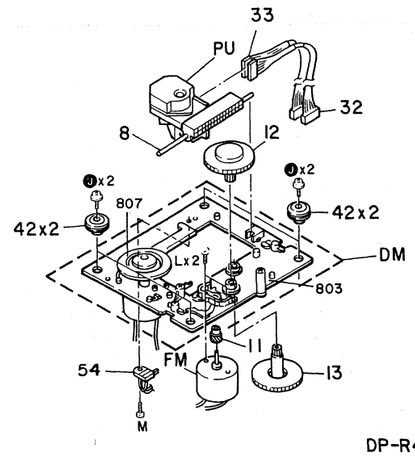
DP-R792/R892/R4440

KENWOOD

Y22-2840-10

EXPLODED VIEW (MECHANISM)

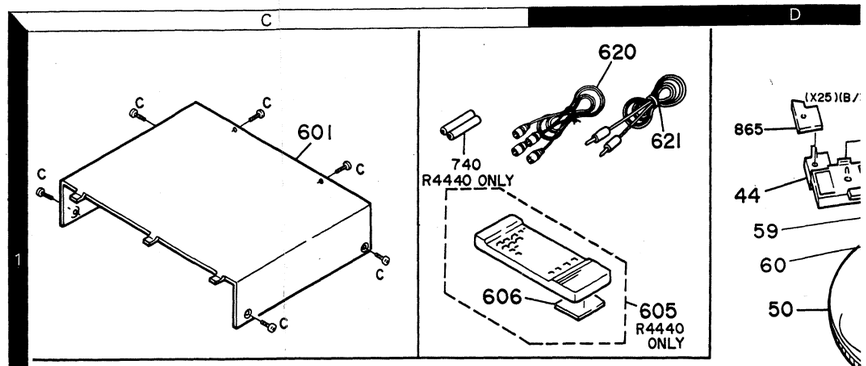




DP-R4440/R892/R792 (2/2)

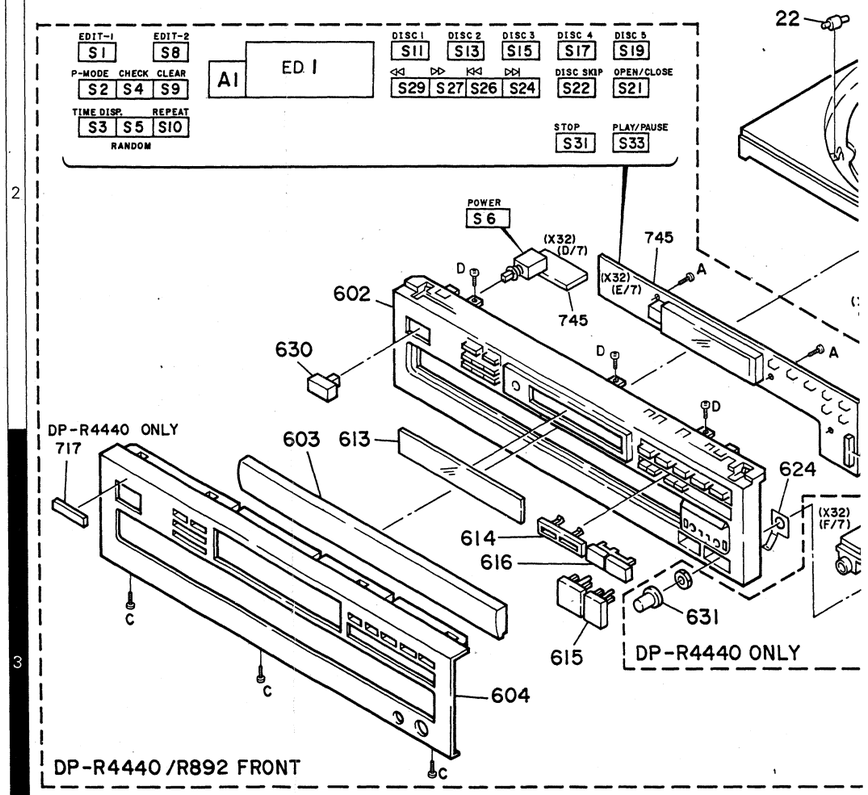
Parts with the exploded numbers larger than 700 are not supplied.

DP-R792/R892/R4440

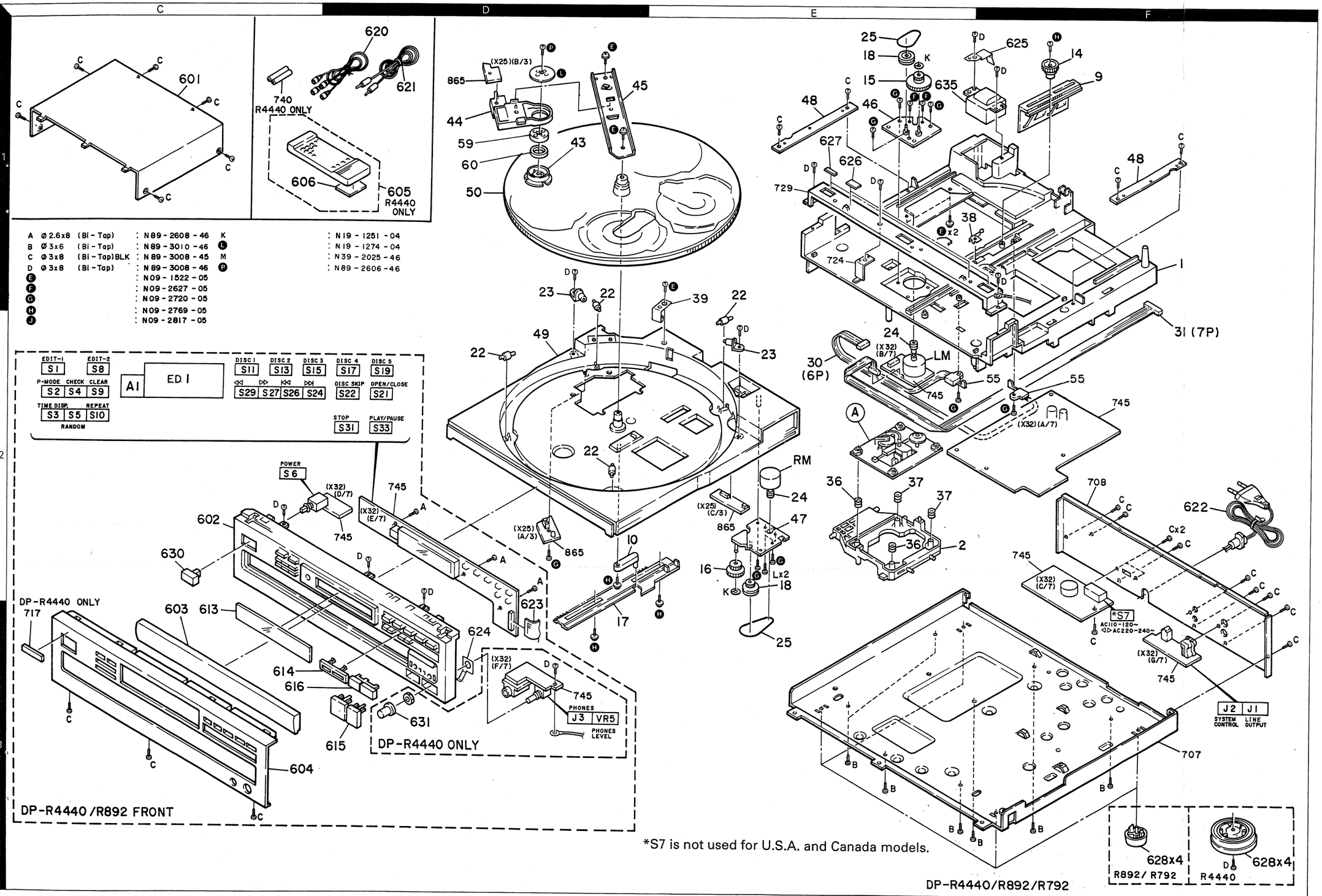


A	Ø2.6x8 (Bi-Tap)	: N89-2608-46	K
B	Ø3x6 (Bi-Tap)	: N89-3010-46	L
C	Ø3x8 (Bi-Tap)BLK	: N89-3008-45	M
D	Ø3x8 (Bi-Tap)	: N89-3008-46	P
E		: N09-1522-05	
F		: N09-2627-05	
G		: N09-2720-05	
H		: N09-2769-05	
J		: N09-2817-05	

: N19-1251-04
: N19-1274-04
: N39-2025-46
: N89-2606-46



EXPLODED VIEW (UNIT)



*S7 is not used for U.S.A. and Canada models.

Parts with the exploded numbers larger than 700 are not supplied.

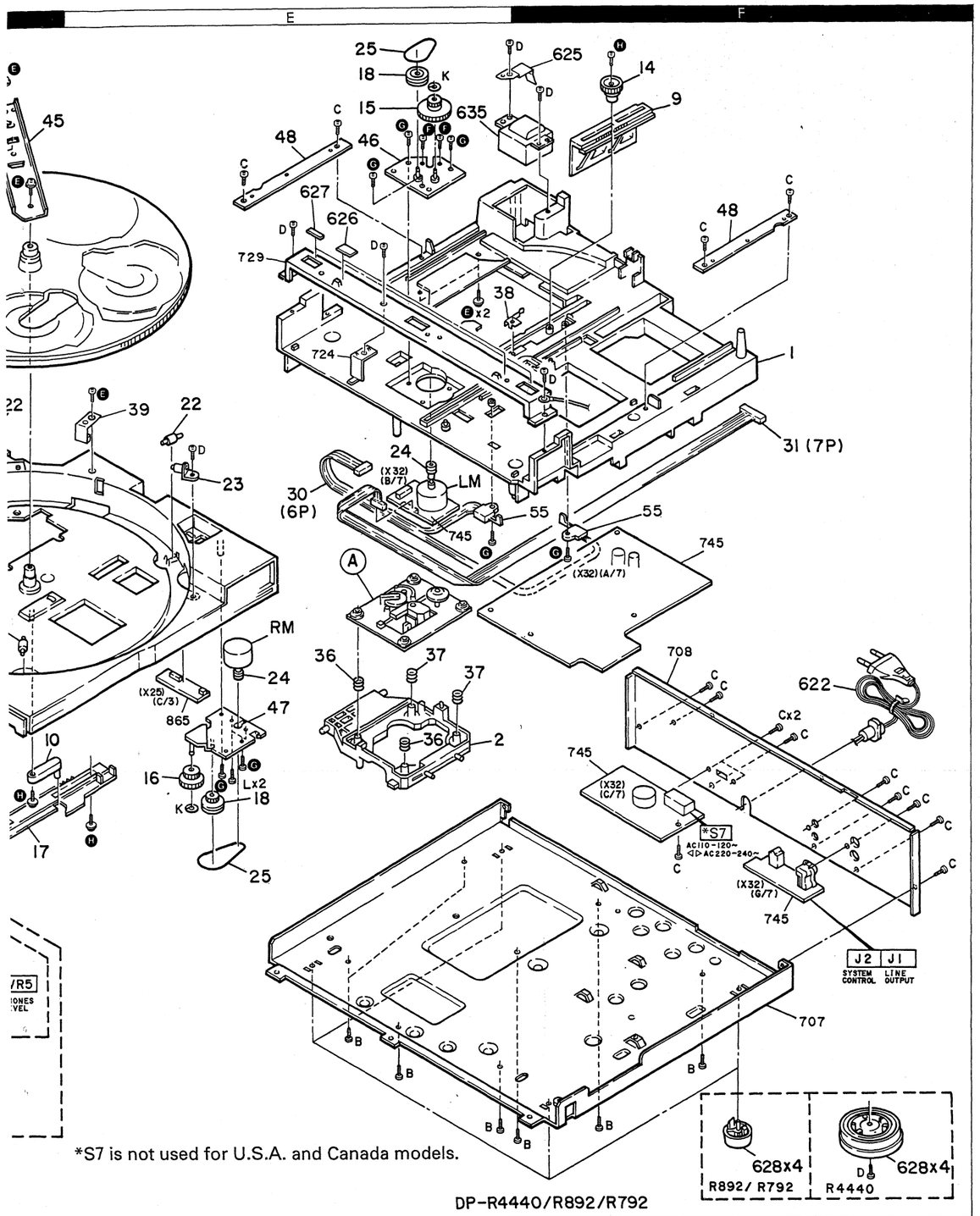
* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			H10-5144-02	P0LYSTYRENE FOAMED FIXTURE		
			H10-5145-02	P0LYSTYRENE FOAMED FIXTURE		
			H11-0039-04	P0LYSTYRENE FOAMED BOARD		
		* * *	H12-2109-04	PACKING FIXTURE		
		* * *	H21-0287-04	PROTECTION SHEET		

DP-R792

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
601	1C	*	A01-1912-01	METALLIC CABINET		
603	1A	*	A29-0307-02	PANEL ASSY(TRAY)		
604	1A	*	A60-0177-02	PANEL ASSY		

)ED VIEW (UNIT)



*S7 is not used for U.S.A. and Canada models.

DP-R4440/R892/R792

Parts with the exploded numbers larger than 700 are not supplied.

DP-R792/R892/R4440

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
-			H10-5144-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-5145-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H11-0039-04	POLYSTYRENE FOAMED BOARD		
-		*	H12-2109-04	PACKING FIXTURE		
-		*	H21-0287-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0319-04	PROTECTION BAG		
-		*	H50-0234-04	ITEM CARTON CASE		
628	3F		J02-0366-15	FOOT		
630	2C		K27-2004-04	KNOB (BUTTON)		
△ 635	1E	*	L07-0238-15	POWER TRANSFORMER		
			DP-R4440			
601	1C		A01-1909-01	METALLIC CABINET		
602	2C		A22-1465-01	SUB PANEL		
603	3C		A29-0184-02	PANEL(TRAY)		
604	3C	*	A60-0175-02	PANEL		
605	1D		A70-0508-05	REMOTE CONTROLLER ASSY		
606	1C		A09-0114-08	BATTERY COVER		
613	3C		B03-2686-04	DRESSING PLATE		
614	3C		B07-1976-03	ESCUTCHEON	K	
615	3D		B07-1977-04	ESCUTCHEON	P	
616	3D		B07-1978-03	ESCUTCHEON	K	
-			B46-0092-13	WARRANTY CARD		
-			B46-0121-13	WARRANTY CARD	P	
-		*	B60-0741-00	QUESTIONAIRE CARD	K	
-		*	B60-0742-00	INSTRUCTION MANUAL	P	
620	1D		E30-0505-05	AUDIO CORD		
621	1D		E30-1392-05	CORD WITH PLUG		
△ 622	2F	*	E30-2689-05	AC POWER CORD		
623	3D	*	E35-0341-05	WIRING HARNESS		
624	3D	*	G02-0990-04	FLAT SPRING		
625	1E	*	G02-0991-04	FLAT SPRING		
626	1E	*	G11-2074-04	CUSHION		
627						
-			H10-5084-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-5085-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H11-0040-04	POLYSTYRENE FOAMED BOARD		
-		*	H12-2108-04	PACKING FIXTURE		
-		*	H21-0287-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0319-04	PROTECTION BAG		
-		*	H50-0233-04	ITEM CARTON CASE		
628	3F		J02-1034-05	FOOT		
630	2C		K27-2004-04	KNOB (BUTTON)		
△ 631	3D		K29-3632-04	KNOB		
△ 635	1E	*	L07-0238-15	POWER TRANSFORMER		
			MECHANISM PCB (X25-4290-10)			
PH1			T95-0121-05	OPTO ISOLATOR		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components.

❶

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
			DP-R792			
601	1C	*	A01-1912-01	METALLIC CABINET		
603	1A	*	A29-0307-02	PANEL ASSY(TRAY)		
604	1A	*	A60-0177-02	PANEL ASSY		
613	1A		B03-2688-03	DRESSING PLATE		
615	2B		B07-1980-04	ESCUTCHEON	K	
-			B46-0092-13	WARRANTY CARD	P	
-			B46-0121-13	WARRANTY CARD	K	
-			B46-0197-00	QUESTIONAIRE CARD		
-		*	B60-0746-00	INSTRUCTION MANUAL(ENGLISH)	P	
-		*	B60-0747-00	INSTRUCTION MANUAL(FRENCH)		
620	1D		E30-0505-05	AUDIO CORD		
621	1D		E30-1392-05	CORD WITH PLUG		
△ 622	2F	*	E30-2689-05	AC POWER CORD		
623	1B	*	E35-0341-05	WIRING HARNESS		
625	1E	*	G02-0991-04	FLAT SPRING		
626	1E	*	G11-2066-04	CUSHION		
627	1E	*	G11-2074-04	CUSHION		
-			H10-5086-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-5087-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H11-0039-04	POLYSTYRENE FOAMED BOARD		
-		*	H12-2109-04	PACKING FIXTURE		
-		*	H21-0287-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0368-04	PROTECTION BAG		
-		*	H50-0235-04	ITEM CARTON CASE		
628	3F		J02-0366-15	FOOT		
630	1A		K29-4140-04	KNOB		
△ 635	1E	*	L07-0238-15	POWER TRANSFORMER		
			DP-R892			
601	1C		A01-1926-01	METALLIC CABINET		
602	2C		A22-1465-01	SUB PANEL		
603	3C		A29-0184-02	PANEL(TRAY)		
604	3C	*	A60-0176-02	PANEL		
613	3C		B03-2687-04	DRESSING PLATE		
614	3C		B07-1976-03	ESCUTCHEON	K	
615	3D		B07-1977-04	ESCUTCHEON	P	
616	3D		B07-1978-03	ESCUTCHEON	K	
-			B46-0092-13	WARRANTY CARD		
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-		*	B60-0744-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0745-00	INSTRUCTION MANUAL(FRENCH)	P	
620	1D		E30-0505-05	AUDIO CORD		
621	1D		E30-1392-05	CORD WITH PLUG		
△ 622	2F	*	E30-2689-05	AC POWER CORD		
623	3D	*	E35-0341-05	WIRING HARNESS		
625	1E	*	G02-0991-04	FLAT SPRING		
626	1E	*	G11-2074-04	CUSHION		

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❸

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D1			GL360	PHOTO DIODE				
PH2			PT361F	PHOTO TRANSISTOR				
CONTROL (X32-1900-XX) -10 : DP-R792 -11 : DP-R892 -12 : DP-R4440								
D29			B30-1012-05	LED			792	
C1 ,2			C90-1332-05	NP-ELEC	10UF	50WV		
C3 ,4			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C5			CE04KW1C472M	ELECTRO	4700UF	16WV		
C6			CE04KW1C222M	ELECTRO	2200UF	16WV		
C7			CE04KW1H101M	ELECTRO	100UF	50WV		
C8			CC45FSL1H221J	CERAMIC	220PF	J		
C9			CK45FB1H102K	CERAMIC	1000PF	K		
C10			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C11 ,12			CQ92FM1H102J	MYLAR	1000PF	J		
C13			CE04KW1V100M	ELECTRO	10UF	35WV		
C14 ,15			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C16			CE04KW1V100M	ELECTRO	10UF	35WV		
C17 ,18			CQ92FM1H221K	MYLAR	220PF	K		
C19 -22			CK45FB1H471K	CERAMIC	470PF	K		
C25 ,26			CQ92FM1H912J	MYLAR	9100PF	J		
C27 ,28			CQ92FM1H681J	MYLAR	680PF	J		
C29 ,30			C90-1332-05	NP-ELEC	10UF	50WV		
C31 ,32			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C33			CE04KW1V100M	ELECTRO	10UF	35WV	4440	
C34			C90-1332-05	NP-ELEC	10UF	50WV		
C35 ,36			CK45FB1H102K	CERAMIC	1000PF	K		
C37 ,38			CE04KW1C101M	ELECTRO	100UF	16WV		
C39 -43			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C44 ,45			CC45FCH1H330J	CERAMIC	33PF	J		
C46 ,47			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C48			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C49			CE04KW1V100M	ELECTRO	10UF	35WV		
C50			CE04KW1A470M	ELECTRO	47UF	10WV		
C51			CQ92FM1H103J	MYLAR	0.010UF	J		
C52			CQ92FM1H152J	MYLAR	1500PF	J		
C53			CF92FV1H473J	MF	0.047UF	J		
C54			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C55			CK45FB1H332K	CERAMIC	3300PF	K		
C56			C90-1333-05	NP-ELEC	22UF	10WV		
C57 ,58			CK45FB1H102K	CERAMIC	1000PF	K		
C59 -61			C90-1332-05	NP-ELEC	10UF	50WV		
C62			CE04KW1V100M	ELECTRO	10UF	35WV		
C63			CC45FSL1H331J	CERAMIC	330PF	J		
C64			CQ92FM1H103J	MYLAR	0.010UF	J		
C65			CF92FV1H333J	MF	0.033UF	J		
C66			C90-1332-05	NP-ELEC	10UF	50WV		
C67 ,68			CF92FV1H104J	MF	0.10UF	J		
C69			C90-1349-05	NP-ELEC	1UF	50WV		
C70			CQ92FM1H223J	MYLAR	0.022UF	J		
C71			C90-1349-05	NP-ELEC	1UF	50WV		
C72			CK45FB1H102K	CERAMIC	1000PF	K		
C73			CQ92FM1H103J	MYLAR	0.010UF	J		
C74			CQ92FM1H222J	MYLAR	2200PF	J		
C75			CF92FV1H333J	MF	0.033UF	J		
C76			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C77 ,78			CE04KW0J221M	ELECTRO	220UF	6.3WV		

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❹

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C79			CE04KW1V100M	ELECTRO	10UF	35WV		
C80			CC45FSL1H330J	CERAMIC	33PF	J		
C81			CE04KW1A101M	ELECTRO	100UF	10WV		
C82 ,83			CC45FSL1H101J	CERAMIC	100PF	J		
C84			CQ92FM1H103J	MYLAR	0.010UF	J		
C85			C90-1333-05	NP-ELEC	22UF	10WV		
C87			CC45FSL1H331J	CERAMIC	330PF	J		
C88			C91-0769-05	CERAMIC	0.01UF	K		
C90 ,91			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C93 -97			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C98			CF92FV1H564J	MF	0.56UF	J		
⚠ C99 ,100			C91-0971-05	FILM	0.01UF	250WV		
C103			CC45FSL1H050C	CERAMIC	5.0PF	C		
C104			CC45FSL1H181J	CERAMIC	180PF	J		
C105			CQ92FM1H103J	MYLAR	0.010UF	J		
J1	3F		E13-2208-05	PHONO JACK (2P)				
J2	3F		E11-0188-05	MINIATURE PHONE JACK				
J3	3D		E11-0208-05	PHONE JACK			4440	
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
⚠ L2			L79-0733-05	LINE FILTER				
L3			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
X1			L77-1164-05	CRYSTAL RESONATOR(16.9344MHZ)				
CP1			R90-0856-05	MULTI-COMP 10KX5	J	1/6W		
CP2			R90-0852-05	MULTIPLE RESISTOR 2.2KX4				
R8			RN14BK2C3481F	RN 3.48K	F	1/6W		
R77			RS14KB3A4R7J	FL-PROOF RS 4.7	J	1W		
VR1 ,2			R12-3686-05	TRIMMING POT.(22K)				
VR3 ,4			R12-3685-05	TRIMMING POT.(10K)				
VR5	3D		R10-4019-05	POTENTIOMETER(50KX2)			4440	
S1 -5	2A,2C		S40-1064-05	PUSH SWITCH				
S6	2C		S40-2370-05	PUSH SWITCH(POWER)				
S8 -10	2A,2C		S40-1064-05	PUSH SWITCH				
S11	2C		S40-1064-05	PUSH SWITCH(1)			892,4440	
S12	2B		S40-1064-05	PUSH SWITCH(1)			792	
S13	2C		S40-1064-05	PUSH SWITCH(2)			892,4440	
S14	2B		S40-1064-05	PUSH SWITCH(2)			792	
S15	2C		S40-1064-05	PUSH SWITCH(3)			892,4440	
S16	2B		S40-1064-05	PUSH SWITCH(4)			792	
S17	2D		S40-1064-05	PUSH SWITCH(4)			892,4440	
S18	2B		S40-1064-05	PUSH SWITCH(5)			792	
S19	2D		S40-1064-05	PUSH SWITCH(5)			892,4440	
S20	2B		S40-1064-05	PUSH SWITCH(DISP SKIP)			792	
S21	2B,3D		S40-1064-05	PUSH SWITCH(OPEN CLOSE)				
S22	3D		S40-1064-05	PUSH SWITCH(DISP SKIP)			892,4440	
S23	2B		S40-1064-05	PUSH SWITCH(UP)			792	
S24	2C		S40-1064-05	PUSH SWITCH(UP)			892,4440	
S25	2B		S40-1064-05	PUSH SWITCH(DOWN)			792	
S26	2C		S40-1064-05	PUSH SWITCH(DOWN)			892,4440	
S27	2C		S40-1064-05	PUSH SWITCH(FF)			892,4440	
S28	2B		S40-1064-05	PUSH SWITCH(FF)			792	
S29	2C		S40-1064-05	PUSH SWITCH(FB)			892,4440	
S30	2B		S40-1064-05	PUSH SWITCH(FB)			792	
S31	2D		S40-1064-05	PUSH SWITCH(STOP)			892,4440	
S32	2B		S40-1064-05	PUSH SWITCH(STOP)			792	

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S33	2D		S40-1064-05	PUSH SWITCH(P,P)	892,4440	
S34	2B		S40-1064-05	PUSH SWITCH(P,P)	792	
S35	2B		S40-1064-05	PUSH SWITCH(3)	792	
D1			HSS104	DIODE		
D1			1SS133	DIODE		
D2			HZS5.1S(B2)	ZENER DIODE		
D2			RD5.1JS(B2)	ZENER DIODE		
D3 -10			HSS104	DIODE		
D3 -10			1SS133	DIODE		
D11 -17			HSS104A	DIODE		
D11 -17			1SS131	DIODE		
D18 ,19			HZS5.6N(B2)	ZENER DIODE		
D18 ,19			RD5.6ES(B2)	ZENER DIODE		
D20			HZS5.1S(B2)	ZENER DIODE		
D20			RD5.1JS(B2)	ZENER DIODE		
D21 ,22			HZS6.8N(B2)	ZENER DIODE		
D21 ,22			RD6.8ES(B2)	ZENER DIODE		
D23 -27			S5688B	DIODE		
D23 -27			1SR139-100	DIODE		
D28			HZS30N(B)	ZENER DIODE		
D28			RD30ES(B)	ZENER DIODE		
D29			B30-1012-05		792	
D30 ,31			HSS104	DIODE		
D30 ,31			1SS133	DIODE		
D32			HZS2.7N(B2)	ZENER DIODE		
D32			RD2.7ES(B2)	ZENER DIODE		
D33 ,34			HSS104	DIODE		
D33 ,34			1SS133	DIODE		
D35 -38			S5688B	DIODE		
D35 -38			1SR139-100	DIODE		
ED1	2A,2C		FIP10BBM6	FLUORESCENT INDICATOR TUBE		
IC1 -4			NJM4565D	IC(OP AMP X2)		
IC1 -4			RC4565D	IC(OP AMP X2)		
IC5		*	UPD75216ACW-B99	IC(MICROPROCESSOR)		
IC6			NJM4558D	IC(OP AMP X2)		
IC7			CXA1372Q	IC(CD RF SERVO)		
IC8			CXA1571S	IC(CD RF AMP)		
IC9			CXD2500AQ	IC(SIGNAL PROCESSOR)		
IC10			NJM4565L	IC(OP AMP X2)		
IC11			TA8409S	IC(MOTOR CONTROL)		
IC12			TC9237N	IC(D/A CONVERTER)		
IC13			LA6510	IC(DUAL POWER OP AMP)		
IC14			LA6510	IC(DUAL POWER OP AMP)		
IC14			TA8410AK	IC(POWER OP AMP)		
Q1			2SA1426	TRANSISTOR		
Q2			2SC1923(R,O)	TRANSISTOR		
Q3			2SD1266	TRANSISTOR		
Q4			2SA1534A	TRANSISTOR		
Q5			2SA954(L,K)	TRANSISTOR		
Q6			DTC124ES	DIGITAL TRANSISTOR		
Q6			UN4212	TRANSISTOR		
Q7			2SD1944(J,K)	TRANSISTOR		
Q8			2SA1534A	TRANSISTOR		
Q9			2SC1740S(Q,R)	TRANSISTOR		

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Q9			2SC3311A(Q,R)	TRANSISTOR		
Q10 ,11			2SC2878(B)	TRANSISTOR		
Q13			DTC124ES	DIGITAL TRANSISTOR		
Q13			UN4212	TRANSISTOR		
Q14 -16			2SC1740S(Q,R)	TRANSISTOR		
Q14 -16			2SC3311A(Q,R)	TRANSISTOR		
Q17			2SD1944(J,K)	TRANSISTOR		
A1	2C		W02-0975-05	ELECTRIC CIRCUIT MODULE	4440	
MECHANISM (X92-1610-10)						
1	1F	*	A10-2804-11	CHASSIS		
2			A15-0071-08	FRAME		
8	3A		D10-2325-04	ROD		
9	1F		D10-3111-03	SLIDER		
10	2D		D10-3112-04	ARM		
11	3B		D13-0879-08	GEAR(MOTOR)		
12	3B		D13-0880-18	GEAR(IDLER)		
13	3B		D13-0881-08	GEAR (FEED)		
14	1F		D13-0905-04	GEAR (IDLER)		
15	1E		D13-0906-04	GEAR (MAIN)		
16	2E		D13-0907-04	GEAR (ROTARY)		
17	3D		D13-0908-03	LACK (GEAR)		
18	1E,2E		D13-0928-04	GEAR		
22	2D		D14-0327-05	ROLLER ASSY		
23	1D,2E		D14-0330-05	ROLLER ASSY		
24	2E		D15-0296-04	MOTOR PULLEY		
25	1E,3E		D16-0282-04	BELT		
30	2E		E31-7919-05	WIRING HARNESS(6P)(SWITCH)		
31	2F		E31-7920-05	WIRING HARNESS(8P)(WHITE/RED)		
32	3B		E31-7921-05	WIRING HARNESS(PU,WHITE/BULE)		
33	2B		E31-7922-05	WIRING HARNESS(PU,WHITE/RED)		
36	2E		G01-3321-18	COMPRESSION SPRING		
37	2E		G01-3322-18	COMPRESSION SPRING		
38	1E		G02-0927-04	FLAT SPRING		
39	1E	*	J19-3437-04	BRACKET		
42	3A,3B		J02-1058-15	INSULATOR		
43	1D		J11-0173-23	CLAMPER		
44	1D		J19-3351-03	HOLDER		
45	1D	*	J19-3352-13	BRACKET		
46	1E		J21-5673-04	MOUNTING HARDWARE ASSY		
47	2E		J21-5675-04	MOUNTING HARDWARE ASSY		
48	1E,1F		J90-0667-04	RAIL		
49	2D	*	J99-0095-11	TRAY(SLIDE)		
50	1D		J99-0096-01	TRAY(ROTARY)		
54	3A		S33-1022-05	LEVER SWITCH		
55	2F		S33-2061-05	LEVER SWITCH		
59	1D		T50-1036-14	YOKE		
60	1D		T99-0222-05	MAGNET		
DM	3B		A11-0679-18	SUB CHASSIS ASSY(DISC MOTOR)		
FM	3A		T42-0566-05	DC MOTOR		
LM	2E		T42-0524-05	DC MOTOR		
PU	2A		T25-0011-05	OPTICAL PICKUP HEAD		
RM	2E		T42-0577-05	DC MOTOR		

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DP-R792/R892/R4440

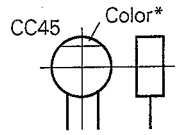
PARTS LIST

PARTS LIST

CAPACITORS

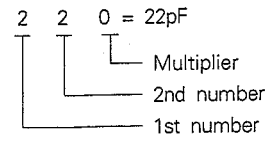
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF -10 ~ +75

Less than 10pF

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

DP-R792/R892/R4440

SPECIFICATIONS

[Format]

System ..... Compact disc digital audio
Laser ..... Semiconductor laser
Playing rotation ..... 200~500 rpm (CLV)

[D/A convertors]

D/A conversion ..... 1 bit
Oversampling ..... 8 fs

[Audio]

Frequency response ..... 4 Hz~20 kHz, ±1.0 dB
Signal to noise ratio ..... More than 94 dB
Dynamic range ..... More than 92 dB
Total harmonic distortion ..... Less than 0.005% at 1 kHz
Channel separation ..... More than 90 dB at 1kHz
Wow & Flutter ..... Unmeasurable limit
Output level / impedance ..... 1.2 V / 3.3 kΩ
Headphone output : DP-R4440 ..... 20 mW (16 Ω)

[General]

Power consumption ..... 15 W
Dimensions ..... W : 440 mm (17-5/16")
: DP-R792 / DP-R892 ..... H : 120 mm (4-3/4")
: DP-R4440 ..... H : 128 mm (5-1/16")
: DP-R792 ..... D : 395 mm (15-9/16")
: DP-R892 ..... D : 391 mm (15-3/8")
: DP-R4440 ..... D : 396 mm (15-9/16")
Weight (Net) : DP-R792 ..... 5.5 kg (12.1 lb)
: DP-R892 / DP-R4440 ..... 5.6 kg (12.3 lb)

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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